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☐   1. **Design problems of spacecraft for communication missions**
Collette, R.C.; Herdan, B.L.;
Proceedings of the IEEE
Volume 65, Issue 3, March 1977 Page(s):342 - 356
**Summary:** The process of designing a spacecraft for geosynchronous commu
the point where the mission and key payload performance requirements have
description of the launch and injection process, the constra.....
AbstractPlus | Full Text: PDF(1669 KB)   **IEEE JNL**
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☐   2. **The evolution of synthetic aperture radar systems and their progression**
Way, J.; Smith, E.A.;
Geoscience and Remote Sensing, IEEE Transactions on
Volume 29, Issue 6, Nov. 1991 Page(s):962 - 985
Digital Object Identifier 10.1109/36.101374
**Summary:** The authors describe the evolution of the spaceborne imaging rad
SAR, through the SIR-A, SIR-B, and SIR-C/X-SAR missions, to the Earth Obs
which is scheduled for launch as part of Eos in the late 1990.....
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☐   3. **Nicholas Minorsky and the automatic steering of ships**
Bennett, S.;
Control Systems Magazine, IEEE
Volume 4, Issue 4, Nov 1984 Page(s):10 - 15
**Summary:** Not available.....
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☐   4. **A triaxial coil receiver system for the study of subsurface electromagnet**
Thayer, D.; Scheer, L.; Tossman, B.;
Oceanic Engineering, IEEE Journal of
Volume 7, Issue 2, April 1982 Page(s):75 - 82
**Summary:** A triaxial set of underwater receiving coils was developed and test

was used jointly with an underwater, calibrated, horizontal, electric dipole sour
low-frequency electromagnetic propagation. This pa.....

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☐ 5. **Vibration induced in towed linear underwater array cables**
Ketchman, J.;
<u>Oceanic Engineering, IEEE Journal of</u>
Volume 6, <u>Issue 3</u>, Jul 1981 Page(s):77 - 87
**Summary:** Towed linear arrays of hydrophones are used in various applicatio
prospecting. Tow cable vibration is capable of causing output in the towed arra
factors limiting acoustic sensitivity is self-noise, t.....

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☐ 6. **Multivariable self-tuning autopilots for autonomous and remotely operat**
Goheen, K.R.; Jefferys, E.R.;
<u>Oceanic Engineering, IEEE Journal of</u>
Volume 15, <u>Issue 3</u>, July 1990 Page(s):144 - 151
Digital Object Identifier 10.1109/48.107142
**Summary:** The effectiveness of subsea intervention has been found to be dep
of an autonomous underwater vehicle's (AUV's) or remotely operated underwa
positioning system. However, these vessel's dynamics vary.....

AbstractPlus | Full Text: <u>PDF</u>(596 KB)   **IEEE JNL**
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☐ 7. **The practical implementation of electronic stabilization for sector scanni**
Carey-Smith, C.;
<u>Oceanic Engineering, IEEE Journal of</u>
Volume 18, <u>Issue 2</u>, April 1993 Page(s):123 - 129
Digital Object Identifier 10.1109/48.219534
**Summary:** The natural motion of a ship at sea produces undesirable effects o
overcome this problem some form of stabilization is desirable. A practical sona
uses image processing techniques to stabilize the displayed .....

AbstractPlus | Full Text: <u>PDF</u>(528 KB)   **IEEE JNL**
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☐ 8. **Sidescan sonar image processing techniques**
Cervenka, P.; de Moustier, C.;
<u>Oceanic Engineering, IEEE Journal of</u>
Volume 18, <u>Issue 2</u>, April 1993 Page(s):108 - 122
Digital Object Identifier 10.1109/48.219531
**Summary:** A four-step processing sequence is described to produce image m
segments of a sidescanned acoustic imaging survey of a given seafloor area.
consisting for each ping of acoustic backscatter levels versus horiz.....

AbstractPlus | Full Text: <u>PDF</u>(2032 KB)   **IEEE JNL**
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☐ 9. **An expert system shell for aerospace applications**
Prasad, B.E.; Perraju, T.S.; Uma, G.; Umarani, P.;
<u>Expert, IEEE [see also IEEE Intelligent Systems and Their Applications]</u>
Volume 9, <u>Issue 4</u>, Aug. 1994 Page(s):56 - 64
Digital Object Identifier 10.1109/64.336148
**Summary:** REX is an object-oriented, asynchronous, real-time expert system
continuous streams of data, represent temporal knowledge, and perform proce
been developed to meet the challenges of the dynamic aerospace en.....

AbstractPlus | Full Text: <u>PDF</u>(900 KB)   **IEEE JNL**
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☐ 10. **Spatial filtering for speckle reduction, contrast enhancement, and textur images**

Sauter, D.; Parson, L.;
Oceanic Engineering, IEEE Journal of
Volume 19, Issue 4, Oct. 1994 Page(s):563 - 576
Digital Object Identifier 10.1109/48.338392

Summary: This paper reports a comparative study of digital enhancement tec filtering to improve the geologic interpretation of side-scan sonar GLORIA ima speckle reduction with window sizes of 3×3-7×7 .....

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11. **Swath bathymetry with GLORIA**
Le Bas, T.P.; Somers, M.L.; Campbell, J.M.; Beale, R.;
Oceanic Engineering, IEEE Journal of
Volume 21, Issue 4, Oct. 1996 Page(s):545 - 553
Digital Object Identifier 10.1109/48.544064

Summary: For many years, GLORIA has been producing sonar images of the mid-1980's, the SeaMARC II system came to prominence producing depth va images. The basic method compares the phases of the signals returning .....

AbstractPlus | References | Full Text: PDF(1172 KB)   IEEE JNL
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12. **Shipborne GPS attitude determination during MMST-93**
Lachapelle, G.; Cannon, M.E.; Lu, G.; Loncarevic, B.;
Oceanic Engineering, IEEE Journal of
Volume 21, Issue 1, Jan. 1996 Page(s):100 - 104
Digital Object Identifier 10.1109/48.485206

Summary: The attitude parameters of a ship underway were measured using channel NovAtel Model 951 narrow-correlator-spacing receivers. These C/A c rates of up to 10 Hz and maintain effective carrier phase lo.....

AbstractPlus | References | Full Text: PDF(600 KB)   IEEE JNL
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13. **Modeling and identification of open-frame variable configuration unman**
Caccia, M.; Indiveri, G.; Veruggio, G.;
Oceanic Engineering, IEEE Journal of
Volume 25, Issue 2, April 2000 Page(s):227 - 240
Digital Object Identifier 10.1109/48.838986

Summary: A lumped parameter model of open-frame unmanned underwater the effects of propeller-hull and propeller-propeller interactions is presented. T model parameters consists of a least squares method using.....

AbstractPlus | References | Full Text: PDF(880 KB)   IEEE JNL
Rights and Permissions

14. **ISAR imaging of targets at low elevation angles**
Berizzi, F.;
Aerospace and Electronic Systems, IEEE Transactions on
Volume 37, Issue 2, April 2001 Page(s):419 - 435
Digital Object Identifier 10.1109/7.937459

Summary: The problem of inverse synthetic aperture radar (ISAR) image rec elevation angle is considered. In this geometric condition the main causes affe ISAR image are the multipath effect due to the reflec.....

AbstractPlus | Full Text: PDF(1604 KB)   IEEE JNL
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15. **Damage-mitigating control of aircraft for enhanced structural durability**
Caplin, J.; Ray, A.; Joshi, S.M.;
Aerospace and Electronic Systems, IEEE Transactions on
Volume 37, Issue 3, July 2001 Page(s):849 - 862
Digital Object Identifier 10.1109/7.953241

Summary: The concept and a design methodology for robust damage-mitigat aircraft is presented. The goal of DMC is to simultaneously achieve high perfo durability and the design procedure is based on damage mitigation a.....

AbstractPlus | Full Text: <u>PDF</u>(1280 KB)   **IEEE JNL**
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16. **High-resolution ISAR imaging of maneuvering targets by means of the ra Doppler technique: modeling and performance analysis**
Berizzi, F.; Mese, E.D.; Diani, M.; Martorella, M.;
<u>Image Processing, IEEE Transactions on</u>
Volume 10, <u>Issue 12</u>, Dec. 2001 Page(s):1880 - 1890
Digital Object Identifier 10.1109/83.974573
**Summary:** Very high resolution inverse synthetic aperture radar (ISAR) imagi is a complicated task. In fact, the conventional range Doppler (RD) ISAR tech properly when target motions generate terms higher than the f.....

AbstractPlus | <u>References</u> | Full Text: <u>PDF</u>(272 KB)   **IEEE JNL**
<u>Rights and Permissions</u>

17. **Space-based radar signal processing baselines for air, land and sea app**
Nohara, T.J.; Weber, P.; Premji, A.;
<u>Electronics & Communication Engineering Journal</u>
Volume 12, <u>Issue 5</u>, Oct. 2000 Page(s):229 - 239
**Summary:** Space-based radar can provide wide-area surveillance and theatre the air, on land, and at sea. This paper describes the airborne and ground-mo problems, and examines environmental and system issues tha.....

AbstractPlus | Full Text: <u>PDF</u>(1084 KB)   **IET JNL**

18. **Handling and towing the long range side scan sonar vehicle "GLORIA" o**
Edge, R.;
<u>OCEANS</u>
Volume 6, Part 1, Aug 1974 Page(s):307 - 315
**Summary:** The paper considers the special problems associated with handlin recovery of the large side scan sonar vehicle known as "G.L.O.R.I.A.", (Geolo Asdic), using R.R.S. "Discovery".(1) (2) A general specif.....

AbstractPlus | Full Text: <u>PDF</u>(1024 KB)   **IEEE CNF**
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19. **Coriolis Program: A Review of the Status of the Ocean Turbine Energy S**
Lissamen, P.; Radkey, R.;
<u>OCEANS</u>
Volume 11, Sep 1979 Page(s):559 - 565
**Summary:** The goal of the Coriolis Program is to develop an energy system t via an array of large ducted turbines moored about 30 km east of Miami in the Stream. Numerous studies have been made of the tech.....

AbstractPlus | Full Text: <u>PDF</u>(648 KB)   **IEEE CNF**
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20. **The Deployment and Operational Performance of the DBI Data Buoy Sys Approaches to the British Isles**
Rusby, S.; Waites, S.;
<u>OCEANS</u>
Volume 12, Sep 1980 Page(s):548 - 553
**Summary:** The DB1 data buoy project was started in 1974, and during the tes buoy spent 1 1/2 years in the North Sea. This present paper describes the ope followed, from 1978 onwards, during which time the buoy has be.....

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21. **Simulation on the motion characteristics of an unmanned untethered su**
Tanaka, N.; Mochizuki, M.; Oda, T.;
<u>Unmanned Untethered Submersible Technology, Proceedings of the 1985 4th on</u>
Volume 4, Jun 1985 Page(s):198 - 222
**Summary:** Not available.....

22. **Ship 3D model estimation from an ISAR image sequence**
Cooke, T.;
<u>Radar Conference, 2003. Proceedings of the International</u>
3-5 Sept. 2003 Page(s):36 - 41
Digital Object Identifier 10.1109/RADAR.2003.1278706
**Summary:** ISAR imagery measures range and radial velocity of scatterers fro
to wave action, a ship has constantly changing roll, yaw and pitch angular velo
ISAR images quite changeable from frame to frame. A met.....

23. **Scatterer labelling estimation for 3D model reconstruction from an ISAR**
Cooke, T.;
<u>Radar Conference, 2003. Proceedings of the International</u>
3-5 Sept. 2003 Page(s):315 - 320
**Summary:** In the previous paper (Ship 3D model estimation, T.Cooke, RADA
described for estimating a 3D point scatterer model from a sequence of 2D IS
knowledge of the ship motion. It assumed, however, that each scatterer .....

24. **Guidance and control of the SIRENE underwater vehicle: from system de**
Oliverira, P.; Silvestre, C.; Aguiar, P.; Pascoal, A.;
<u>OCEANS '98 Conference Proceedings</u>
Volume 2, 28 Sept.-1 Oct. 1998 Page(s):1043 - 1048 vol.2
Digital Object Identifier 10.1109/OCEANS.1998.724395
**Summary:** The paper describes the implementation and testing at sea of the
systems of SIRENE, an autonomous underwater shuttle for the automatic dep
down to depths of 4000 meters.....

25. **INS-based identification of quay-crane spreader yaw**
Louda, M.A.; Rye, D.C.; Dissanayake, M.W.M.G.; Durrant-Whyte, H.F.;
<u>Robotics and Automation, 1998. Proceedings. 1998 IEEE International Confe</u>
.Volume 4, 16-20 May 1998 Page(s):3310 - 3315 vol.4
Digital Object Identifier 10.1109/ROBOT.1998.680949
**Summary:** A crucial problem in crane control is to identify exactly the position
in space. This paper describes a new non-contact method for determining the
means of an inertial navigation system (INS) and a K.....